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- (71) Applicant (*for all designated States except US*): THE GENERAL HOSPITAL CORPORATION [US/US]; 55 Fruit Street, Boston, MA 02114 (US).
- (72) Inventors; and
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

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(54) Title: METHODS AND COMPOSITIONS OF ECDYSOZOAN MOLT INHIBITION

(57) Abstract: In general, this invention relates to nucleic acid and amino acid sequences involved in molting and the use of these sequences as targets for the development of compounds that disrupt Ecdysozoan molting, and are useful as insecticides, nematicides, and anti-parasitic agents.

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(84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/41788

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12Q 1/68; G01N 33/53, 33/567; C12P 21/06; C12N 5/04, 5/06, 5/10, 15/82; C07K 1/00, 14/00, 17/00
 US CL : 435/6, 7.1, 7.21, 69.1, 418, 419, 468, 348; 530/350; 536/24.5

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 435/6, 7.1, 7.21, 69.1, 418, 419, 468, 348; 530/350; 536/24.5

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
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C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|-----------------------|
| A | US 6,414,115 B1 (CHANDRASHEKAR et al.) 02 July 2002, see entire document. | 1-67 |
| X | LIZOTTE-WANIEWSKI et al. Identification of Potential Vaccine and Drug Target Candidates by Expressed Sequence Tag Analysis and Immunoscreening of Onchocerca volvulus Larval cDNA Libraries. Infection and Immunity. June 2000, Vol. 68, No. 6, pages 3491-3501, see entire document. | 1-67 |
| X | ABOOBAKER et al, Functional genomics for parasitic nematodes and platyhelminths. Trends in Parasitology. April 2004, Vol. 20, No. 4, pages 178-184, see entire document. | 1-67 |

Further documents are listed in the continuation of Box C.

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INTERNATIONAL SEARCH REPORT

Continuation of B. FIELDS SEARCHED Item 3:
East databases-USPAT, PGPUB, EPO, JPO, Derwent, IBM-IDB
STN databases-Medline, caplus scisearch
searched the mlt nucleic acids and othologs, nematode infection, drug screen , molting